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| | Application No. | Applicant(s) | |
|--|--|--|---|
| Notice of Allowability | 09/964,690 | LEE ET AL. | |
| | Examiner | Art Unit | _ |
| | Holly Rickman | 1773 | |
| The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED or other appropriate comm GHTS. This application is | in this application. If not included | • |
| 1. This communication is responsive to the interview held 9/2 | <u>7/04</u> . | | |
| 2. The allowed claim(s) is/are <u>1-4,6-15,17-19</u> , now renumbers | ed 1-17. | | |
| 3. \boxtimes The drawings filed on <u>28 September 2001</u> are accepted by | the Examiner. | | |
| 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have international Bureau (PCT Rule 17.2(a)). * Certified copies not received: ☐ Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMITHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftsperson 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ☐ (b) ☐ including changes required by the attached Examiner's | been received. been received in Application cuments have been received of this communication to file ENT of this application. Itted. Note the attached EX is reason(s) why the oath of the submitted. The submitted of the submitted of the submitted. | on No ed in this national stage application from the e a reply complying with the requirements AMINER'S AMENDMENT or NOTICE OF r declaration is deficient. w (PTO-948) attached | |
| Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.4 each sheet. Replacement sheet(s) should be labeled as such in the | 84(c)) should be written on t | he drawings in the front (not the back) of | |
| DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F | it of BIOLOGICAL MAT | ERIAL must be submitted. Note the | |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date | 6. ⊠ Interview S Paper No. 3), 7. ⊠ Examiner's | oformal Patent Application (PTO-152) ummary (PTO-413), /Mail Date <u>09272004</u> . Amendment/Comment Statement of Reasons for Allowance | |
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An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Raj Davé on 9/27/04.

The application has been amended as follows:

Claim 1, line 4, "40Å" has been deleted and ---35Å--- has been inserted therefor; line 5, ---, wherein the niobium-containing seedlayer further comprises a metal selected from the group consisting of boron, titanium, vanadium, chromium, zirconium, molybdenum, ruthenium, tantalum, and mixtures thereof" has been inserted after "layer"

Claim 2, lines 2-3, "a thickness from about 1Å to about 35Å," has been deleted.

Claim 6, line 2, "5" has been deleted and ---1--- has been inserted therefor.

Claim 12, line 4, "40Å" has been deleted and ---35Å--- has been inserted therefor;

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line 5, ---, wherein the niobium-containing seedlayer further comprises a metal selected from the group consisting of boron, titanium, vanadium, chromium, zirconium, molybdenum, ruthenium, tantalum, and mixtures thereof" has been inserted after "layer".

Claim 13, line 2, "a thickness from about 1Å to about 35Å," has been deleted.

Claim 17, line 1, "16" has been deleted and ---12--- has been inserted therefor.

Claims 5, 16, and 20 have been canceled.

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STATEMENT OF REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: An interview with Mr. Raj Dave was held on September 27, 2004. In this interview, the amendment of claims 1 and 12 to recite a range having an upper limit of 35 Angstroms was discussed. The examiner indicated this amendment would overcome the Bian reference but the claims would still read on a newly discovered reference to Wong et al. (US 6558811), now of record The examiner indicated that Wong et al. fails to teach or suggest the limitations of claim 5. Mr. Dave agreed to an examiner's amendment putting the limitations of claim 5 into the independent claims in order to overcome Wong et al. and also to the amendment of the independent claims to recite an upper limit of about 35 Angstroms thereby overcoming Bian.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Holly Rickman whose telephone number is (571) 272-1514. The examiner can normally be reached on Monday-Friday 9:30-6:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571) 272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Holly Rickman Primary Examiner

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hr September 27, 2004